

Claims

- [c1] 1. A gas turbine (1) comprising:
a duct (11) for carrying gas from a gas turbine inlet (9) to a gas turbine outlet (10);
an outer housing (19, 20, 21) arranged radially outside a wall structure (12, 13, 14) that defines radially outer limits of the gas duct (11);
the gas turbine (1), between the inlet (9) and outlet (10), comprising a plurality of modules (6, 7, 8), each of which comprises a part of the outer housing (19, 20, 21) and a part of the wall structure (12, 13, 14) of the gas duct;
at least two adjacent parts of the wall structure (12, 13, 14) of the gas duct are arranged at a distance from one another; and
at least one pressure dividing element (27, 33, 42) that divides off a pressure area (P1, P3, P4, P5, P6) in the gas duct (11) at a junction between the two adjacent parts of the wall structure (12, 13, 14) from another pressure area (15, 16, 17, 18) situated between the wall structure (12, 13, 14) of the gas duct and the outer housing (19, 20, 21), the pressure dividing element (27, 33, 42) consisting of a pressure wall extending from the wall structure (12, 13, 14) of the gas duct to the outer housing

(19, 20, 21).

- [c2] 2. The gas turbine as recited in claim 1, wherein the pressure wall (27, 33, 42) is connected to the wall structure (12, 13, 14) of the gas duct and to the outer housing (19, 20, 21) of the same module by means of a bolted connection.
- [c3] 3. The gas turbine as recited in claim 1, wherein the pressure wall (27, 33, 42) is provided with a first flange extending radially outwards on the outer periphery of the pressure wall for pressure-tight connection.
- [c4] 4. The gas turbine as recited in claim 1, wherein the pressure wall (27, 33, 42) is provided with a second flange on the inside diameter of the pressure wall for pressure-tight connection to the wall structure (12, 13, 14) of the gas duct.
- [c5] 5. The gas turbine as recited in claim 1, wherein the pressure wall (27, 33, 42) has at least one bellows-shaped section (50, 51).
- [c6] 6. The gas turbine as recited in claim 1, wherein the pressure wall (27, 33, 42) is made of metal.
- [c7] 7. A method for configuring a gas turbine, said method comprising:

providing a duct for carrying gas from a gas turbine inlet to a gas turbine outlet in a gas turbine;
arranging an outer housing radially outside a wall structure that defines radially outer limits of the gas duct;
configuring the gas turbine between the inlet and outlet to include a plurality of modules which each comprise a part of the outer housing and a part of the wall structure of the gas duct;
arranging at least two adjacent parts of the wall structure (12, 13, 14) of the gas duct at a distance from one another; and
configuring at least one pressure dividing element to divide off a pressure area in the gas duct at a junction between the two adjacent parts of the wall structure from another pressure area situated between the wall structure of the gas duct and the outer housing, the pressure dividing element being configured to be constituted by a pressure wall extending from the wall structure of the gas duct to the outer housing.

[c8] 8. The method as recited in claim 7, wherein the pressure wall is connected to the wall structure of the gas duct and to the outer housing of the same module by means of a bolted connection.

[c9] 9. The method as recited in claim 7, wherein the pressure wall is provided with a first flange extending radially

outwards on the outer periphery of the pressure wall for pressure-tight connection.

- [c10] 10. The method as recited in claim 7, wherein the pressure wall is provided with a second flange on the inside diameter of the pressure wall for pressure-tight connection to the wall structure of the gas duct.
- [c11] 11. The method as recited in claim 7, wherein the pressure wall has at least one bellows-shaped section.
- [c12] 12. The method as recited in claim 7, wherein the pressure wall is made of metal.